

Publications

Prof. Dr.-Ing. habil. Christian Weindl

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190. I. Mladenovic, Ch. Weindl: Study on Performance, Reliability & Diagnostic Possibilities of the MV PILC Cables; Part 1 – Artificial Ageing Experiment & Diagnostic Parameters, Transactions on Dielectrics and Electrical Insulation, to be published
189. I. Mladenovic, Ch. Weindl: Study on Performance, Reliability & Diagnostic Possibilities of the MV PILC Cables; Part 2 – Diagnostic Parameters and their Dependencies, Transactions on Dielectrics and Electrical Insulation, to be published
188. I. Mladenovic, Ch. Weindl: Study on Performance, Reliability & Diagnostic Possibilities of the MV PILC Cables; Part 3 – Innovative Approach for Remaining Lifetime Determination, Transactions on Dielectrics and Electrical Insulation, to be published
187. T. Hertlein, I. Mladenovic, Ch. Weindl: A Novel Approach for the Grid-Serving Implementation of Charging Infrastructures and Their Techno-Economic Integration in the Existing Power Grid, Energies from MDPI, Open Access Journal, 2025
186. M. Aron, A. Pop, M. Koch, C. Weindl, M. Denk: Advanced Methods for Extrapolating Thermal Measurement Signals to Accelerate Electric Drive Testing, 2025
185. M. Aron, A. Pop, J. Herrmann, M. Denk: Evaluation of Real-Time Capable Thermal Simulation Models for Electrical Machines, 2024
184. T. Hertlein: Entwicklung, Modellierung und Echtzeitdemonstration intelligenter Ladeinfrastrukturen für Elektromobilität zu deren netzdienlichen Integration , 8. Netzwerktreffen des BayWISS-Verbundkolleg Energie, October 21., Waischenfeld, Germany, 2024
183. A.-C. Uhr-Müller: Methodische Ableitung von Verfahren zur diagnostischen Analyse von Mittelspannungskomponenten durch Anwendung von Systemen zur künstlich beschleunigten Alterung , 8. Netzwerktreffen des BayWISS-Verbundkolleg Energie, October 21., Waischenfeld, Germany, 2024
182. T. Blenk: Zustandsraumbasierte Lastflussstimulation zur Auslastungsoptimierung elektrischer Betriebsmittel in Verteil- und Versorgungsnetzen , 8. Netzwerktreffen des BayWISS-Verbundkolleg Energie, October 21., Waischenfeld, Germany, 2024
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180. A.-C. Uhr-Müller: Entwicklung, Aufbau und Betrieb eines Diagnose- und Alterungssystems für Mittelspannungskabel und Garnituren , Projektabschlussbericht, April 10., Köln,. Germany, 2024
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178. S. Bottler, Ch. Weindl: Modeling Renewable Energy Feed-In Dynamics in a German Metropolitan Region, Energies from MDPI, Open Access Journal, 2025, to be published
177. T. Blenk, Ch. Weindl: Sensitivity analysis of power systems in state space, Energies from MDPI, Open Access Journal, 2024
176. S. Bottler, E. Beitinger, M. Stammberger, Ch. Weindl: Fundamental Introduction of a Holistic Modeling Approach Enabling the Depiction of Sector-Coupled Energy Systems; IEEE International Conference on Diagnostics in Electrical Engineering CDEE 2024, Pilsen, Czech Republic
175. S. Bottler, Ch. Weindl: Bestimmung lastabhängiger monetärer Bewertungsfaktoren von sektorgekoppelten Energiesystemen in einer neuartigen zustandsraum-basierten Lastflusssimulation, ETG CIREN Workshop 2023 (D-A-C-H), November 28-29, München, Germany
174. T.A. Hertlein, J. Ochs, T. Blenk, Ch. Weindl: Netzdienliche Ladesteuerung von Elektrofahrzeugen, ETG-CIREN-Workshop 2023 (D-A-C-H), Nov. 28. - 29., Munich, Germany, 2023
173. T. Blenk, T.A. Hertlein; Ch. Weindl: Simulation of a Holistic Cluster-Based Incentive Driven Load Flow Control in a State Space Based Simulation Environment; IEEE PES Innovative Smart Grid Technologies Latin America 2023, ISGT-LA 2023, in San Juan, Puerto Rico
172. S. Bottler, Ch. Weindl: An Approach for Determining Load-Dependent Monetary Assessment Factors for Oil-Immersed Transformers Within a Load Flow Simulation; IEEE PES Innovative Smart Grid Technologies Latin America 2023, ISGT-LA 2023, in San Juan, Puerto Rico
171. S. Bottler, Ch. Weindl: State-Space Load Flow Calculation of an Energy System with Sector-Coupling Technologies. Energies 2023, 16(12), 4803; <https://doi.org/10.3390/en16124803>, June 13 2023
170. T.A. Hertlein: Entwicklung, Modellierung und Echtzeitdemonstration intelligenter Ladeinfrastrukturen für Elektromobilität zu deren netzdienlicher Integration, 7. Netzwerktreffen des BayWISS-Verbundkolleg Energie, October 07., Waischenfeld, Germany, 2023, Vortrag
169. T. Blenk, Ch. Weindl: Flexibilisierung der Netznutzung und netzorientierter Lastausgleich durch Clusterbildung und automatisierte Energiecluster-Services –

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167. S. Bottler, N. Meissner, Ch. Weindl: Validation of a state-space load flow simulation depicting an energy system with sector-coupling technologies, ETG Kongress 2023: Die Energiewende beschleunigen, May 25 - May 28 2023, Kassel, Deutschland
166. T. Blenk; C. Weindl Fundamentals of State-Space Based Load Flow Calculation of Modern Energy Systems. *Energies* 2023, 16, 4872.
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165. T. Hertlein, J. Ochs, T. Blenk, Ch. Weindl: Grid Serving Charging Control of Electric Vehicles, CIREN 2023 International Conference & Exhibition on Electricity Distribution, June 12. - 15., Rome, Italy, 2023
164. T.A. Hertlein, T. Blenk, Ch. Weindl, J. Ochs: Object-Oriented Charging Model for the Simulation of Grid-Serving Intelligent Charging Infrastructure, ETG Kongress 2023: Die Energiewende beschleunigen, May 25. - 28., Kassel, Deutschland, 2023, Paper & Präsentation
163. T. Blenk, T.A. Hertlein, Ch. Weindl: State-Space Based Load Flow Simulation in a Hardware-In-The-Loop System for Real-Time Demonstration of Charging Infrastructures, ETG Kongress 2023: Die Energiewende beschleunigen, May 25 - May 28 2023, Kassel, Deutschland
162. A.-C. Uhr-Müller: Methodology for Determining the Ageing Condition and Remaining Lifetime of 10 kV Medium-Voltage Cables, Klausurtagung Informatik 7 der Friedrich-Alexander-Universität Erlangen Nürnberg 2023, May 5-7., Waischenfeld, Germany, 2023, Vortrag
161. S. Bottler: Modeling an energy system with sector-coupling technologies using the mathematical state-space representation, Klausurtagung Informatik 7 der Friedrich-Alexander-Universität Erlangen Nürnberg 2023, May 5-7., Waischenfeld, Germany, 2023, Vortrag
160. T.A. Hertlein: Development, Modeling and Real-Time Demonstration of Intelligent Charging Infrastructures for Electromobility and their Grid Serving Integration, Klausurtagung Informatik 7 der Friedrich-Alexander-Universität Erlangen Nürnberg 2023, May 5.-7., Waischenfeld, Germany, 2023, Vortrag
159. S. Bottler: Promotionsvorhaben - Sektorenübergreifende Modellierung und Berechnung elektrischer Energiesysteme zur auslastungsabhängigen Bewertung und life-cycle Optimierung der Netzebetriebsmittel, Sitzung BayWiss wissenschaftlicher Beirat, Februar 14., 2023, Vortrag, online

158. S. Bottler: Modellierung der Stromsektors im Forschungsprojekt ESM-Regio - Zwischenstand, 2. Beiratstreffen im Forschungsprojekt ESM-Regio, Februar 13, 2023, Bayreuth
157. A.-C. Uhr-Müller, Ch. Weindl: Evolution of Dissipation Factor Values of New and Pre-Aged PILC Cables Regarding Frequency and Temperature, 11th International Conference on Insulated Power Cables (Jicable'23), June 18.-22., Lyon, France, 2023
156. S. Bottler, T. Blenk, Ch. Weindl: An approach for determining load-dependent monetary assessment factors for PILC and XLPE cables within a load flow simulation, IEEE - Global Energy Conference (GEC) 2022, Oct. 26.- 29. 2022, Batman, Türkei
155. A.-C. Uhr-Müller, F. Eppelein, Ch. Weindl: Implementation of the Extended Insulation Parameters Method for Physical Interpretation of Diagnostic Measurement Data, IEEE Conference on Electrical Insulation and Dielectric Phenomena (CEIDP 2022), Oct. 31. - Nov. 02., Denver, USA, 2022
154. T.A. Hertlein: Entwicklung, Modellierung und Echtzeitdemonstration intelligenter Ladeinfrastrukturen für Elektromobilität zu deren netzdienlicher Integration, 6. Netzwerktreffen des BayWISS-Verbundkolleg Energie, October 28., Waischenfeld, Germany, 2022, Vortrag
153. A.-C. Uhr-Müller: Methodische Ableitung von Verfahren zur diagnostischen Analyse von Mittelspannungskomponenten durch Anwendung von Systemen zur künstlich beschleunigten Alterung , 6. Netzwerktreffen des BayWISS-Verbundkolleg Energie, October 28., Waischenfeld, Germany, 2022, Vortrag
152. S. Bottler, Tobias Blenk, Christian Weindl: Interface and data aggregation for modeling electric power system with sector coupling technologies, International Conference on Diagnostics in Electrical Engineering (IEEE - CDEE 2022 Diagnostika), Sept. 6.- 8., Pilsen, Czech Republic, 2022 Sept, Pilsen, Czech Republic, 2022
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146. S. Bottler: Modelling of electrical power systems with sector-coupling technologies to enable load-dependent assessment and life-cycle optimization of grid operating equipment, Klausurtagung Informatik 7 der Friedrich-Alexander-Universität Erlangen Nürnberg 2022, June 17-19., Waischenfeld, Germany, 2022, Vortrag
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144. T. A. Hertlein, Tobias Blenk, Christian Weindl: Digital Energy Services For Distribution Grids with Integrated Charging Infrastructure for E-Mobility, CIRED Porto Workshop 2022 - E-mobility and power distribution systems, June 2.-3, Porto, Portugal, 2022
143. T. A. Hertlein: Promotionsvorhaben - Entwicklung, Modellierung und Echtzeitdemonstration intelligenter Ladeinfrastrukturen für Elektromobilität zu deren netzdienlicher Integration in clusterbasierte Verteilnetze, Sitzung BayWiss wissenschaftlicher Beirat, Februar 14., 2022, Vortrag, online
142. T. A. Hertlein, Anne Bauer, Tobias Blenk, Christian Weindl: Netzorientierter Lastausgleich durch intelligente Ladesteuerung für Elektromobilität mittels digitaler Energieservices in Verteilnetzen, 5. Regenerative Energietechnik Konferenz (RET.CON 2022), Februar 10.-11, Nordhausen, Germany, 2022, Paper & Vortrag
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140. T. A. Hertlein, T. Blenk, Ch. Weindl: Flexibilisierung der Netznutzung durch intelligente Ladesteuerung und netzorientierter Lastausgleich mittels automatisierter Energiecluster-Services, ETG-CIRED-Workshop 2021, November 2.-3., München, Germany, 2021
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137. T. Blenk, Ch. Weindl: Flexibilisierung der Netznutzung und netzorientierter Lastausgleich durch Clusterbildung und automatisierte Energiecluster-Services – Anforderungen an moderne Lastflusssimulationssysteme, 5. Netzwerktreffen, 29.10.2021 , Waischenfeld

136. A.-C. Uhr-Müller: Netze-Themenstellung Netze im BayWISS-Verbundkolleg Energie, 5. Netzwerktreffen des BayWISS-Verbundkolleg Energie, October 29., Germany, 2021, Vortrag
135. M. Zapf, H. Pengg, Th. Bütler, C. Bach, Ch. Weindl: Kosteneffiziente und nachhaltige Automobile. Bewertung der realen Klimabelastung und der Gesamtkosten – Heute und in Zukunft, 2. Aufl. Wiesbaden: Springer Fachmedien Wiesbaden GmbH; Springer Vieweg, 2021
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